

ABSTRACT

A polyurethane is described which is a reaction product of at least one isocyanate containing material having at least two isocyanate groups and at least one compound having at least two hydrogen atoms capable of reacting with the isocyanate. The compound having the at 5 least two hydrogen atoms contains a hydroxyalkanoate, which is preferably a thermally decomposable or a biodegradable polyhydroxyalkanoate. The polyurethane of the present invention can be used in a number of applications and preferably has improved properties such as, but not limited to, improved flexibility and/or improved hydrophobicity. The polyurethanes of the present invention are preferably biodegradable and easily recycled.